

WHAT IS CLAIMED IS:

1. An image processing apparatus for correcting a positional offset of an input image with respect to a reference image, comprising:

- 5 storage means for storing information about the reference image, including a reference position;
area information specifying means for obtaining information about a plurality of areas included in the input image;
- 10 target position calculating means for calculating a target position on the input image on the basis of the information obtained by said area information specifying means;
calculating means for specifying information
- 15 about the reference image in accordance with the input image from said storage means, and calculating a positional offset between the reference position included in the specified information and the target position; and
- 20 correcting means for correcting positions of a plurality of areas included in the input image by using the offset calculated by said calculating means.

2. The apparatus according to claim 1, wherein said
25 area information specifying means extracts an area having the same attribute from the input image to specify information including an attribute, size, and

position of the area.

3. The apparatus according to claim 2, wherein the
attribute includes a table attribute, text attribute,
5 title attribute, and frame attribute.

4. The apparatus according to claim 1, wherein said
target position calculating means obtains a leftmost
end/uppermost end position of a plurality of areas
10 included in the input image and sets the position as
the target position.

5. The apparatus according to claim 1, wherein said
target position calculating means further comprises
15 removing means for removing an unstable area from a
plurality of areas included in the input image, and
calculates a target position for the input image by
using areas left after area removal performed by said
removing means.

20

6. The apparatus according to claim 5, wherein the
unstable area is a noise area.

7. The apparatus according to claim 5, wherein said
25 removing means removes an area having a score less than
a predetermined score from a plurality of areas
included in the input image.

8. An image processing method of correcting a positional offset of an input image with respect to a reference image, comprising:

5 the area information specifying step of obtaining information about a plurality of areas included in the input image;

the target position calculating step of calculating a target position on the input image on the
10 basis of the information obtained in the area information specifying step;

the calculating step of specifying information about the reference image, the information being stored with a reference position in storage means in
15 accordance with the input image from the storage means, and calculating a positional offset between the reference position included in the specified information and the target position; and

the correcting step of correcting positions of a
20 plurality of areas included in the input image by using the offset calculated in the calculating step.

9. The method according to claim 8, wherein the target position calculating step further comprises the
25 removing step of removing an unstable area from a plurality of areas included in the input image, and a target position for the input image is calculated by

using areas left after area removal performed in the removing step.

10. A computer-readable storage medium storing
- 5 program codes for executing an image processing method of correcting a positional offset of an input image with respect to a reference image, comprising:
- a program code of the area information specifying step of obtaining information about a plurality of
- 10 areas included in the input image;
- a program code of the target position calculating step of calculating a target position on the input image on the basis of the information obtained in the area information specifying step;
- 15 a program code of the calculating step of specifying information about the reference image, the information being stored with a reference position in storage means in accordance with the input image from the storage means, and calculating a positional offset
- 20 between the reference position included in the specified information and the target position; and
- a program code of the correcting step of correcting positions of a plurality of areas included in the input image by using the offset calculated in
- 25 the calculating step.

11. The medium according to claim 10, wherein the

target position calculating step further comprises the removing step of removing an unstable area from a plurality of areas included in the input image, and a target position for the input image is calculated by

5 using areas left after area removal performed in the removing step.